FIG.1A

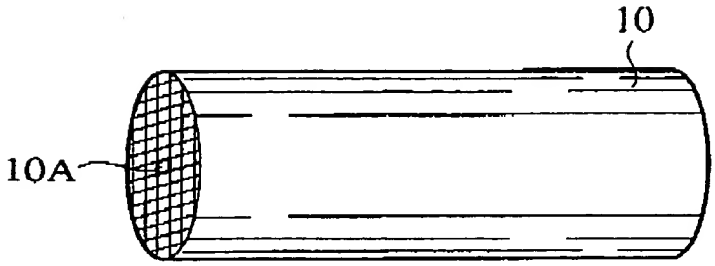

FIG.1B

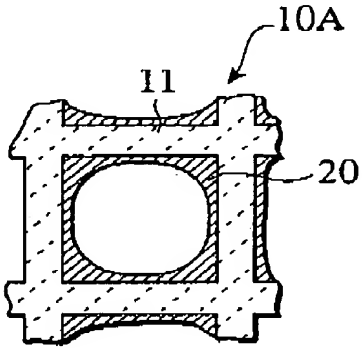

FIG.2

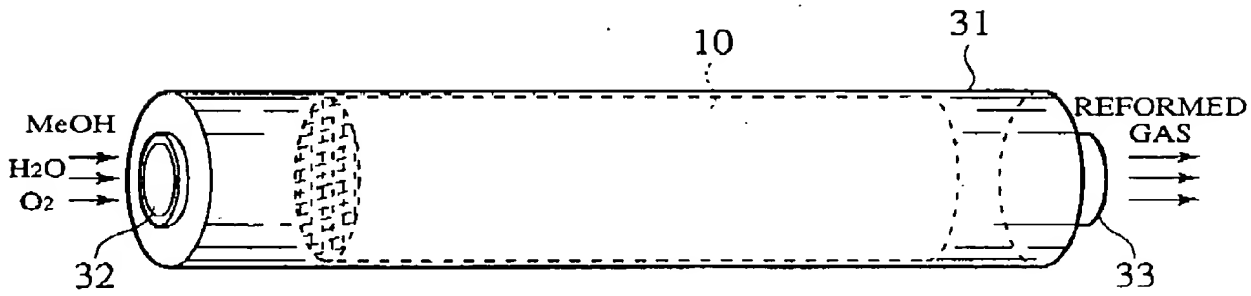

FIG.3

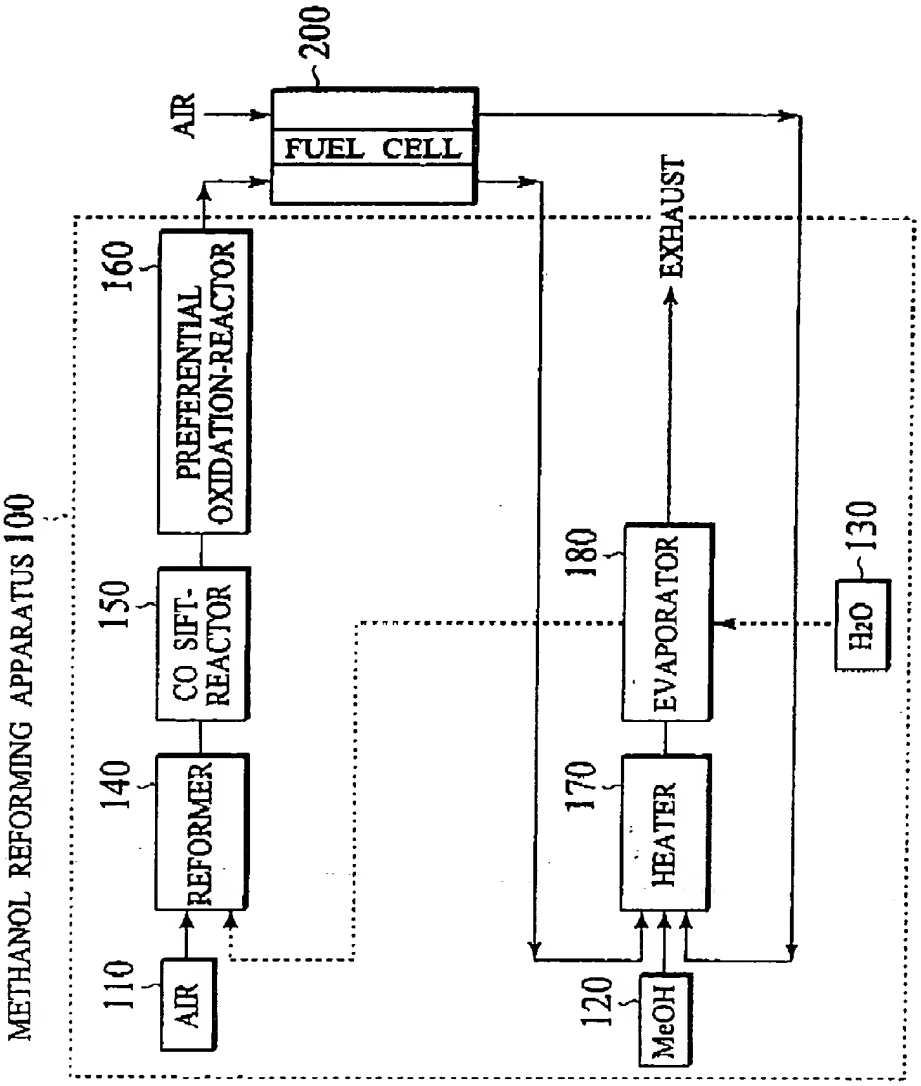
200
AIR
FUEL CELL
EXHAUST
160
PREFERENTIAL OXIDATION-REACTOR
150
CO SIFT-REACTOR
140
REFORMER
110
AIR
METHANOL REFORMING APPARATUS 100
180
EVAPORATOR
130
H2O
170
HEATER
120
MeOH

FIG.4

Table

Example	Catalyst No	Composition of catalyst supported material/(support)	Pd:Zu (mol ratio)	Burning temperature (℃)	Reducing temperature (℃)	Reformation rate (%)	CO concentration (%)
example 1	catalyst 1	5%Pd-3.06%Zn/(68%CeO2-32%ZrO2)	1:1	500	500	98	2.5
example 2	catalyst 2	5%Pd-6.12%Zn/(68%CeO2-32%ZrO2)	1:2	500	500	99.8	2.1
example 3	catalyst 3	5%Pd-30.6%Zn/(68%CeO2-32%ZrO2)	1:10	500	500	99.3	1.1
example 4	catalyst 4	5%Pd-6.12%Zn/CeO2	1:2	500	500	98.8	2.2
example 5	catalyst 5	5%Pd-6.12%Zn/ZrO2	1:2	500	500	99.7	2.3
example 6	catalyst 6	5%Pd-6.12%Zn/(20%CeO2-80%ZrO2)	1:2	500	500	99.5	2.2
example 7	catalyst 7	5%Pd-6.12%Zn/(68%CeO2-32%ZrO2)	1:2	400	400	98.3	2.3
example 8	catalyst 8	5%Pd-6.12%Zn/(68%CeO2-32%ZrO2)	1:2	600	600	98.5	2.1
comparative example 1	catalyst 9	5%Pd/(68%CeO2-32%ZrO2)		500	500	92	10.5
comparative example 2	catalyst 10	Cu-ZnO		400	400	85	1.1
comparative example 3	catalyst 11	5%Pd/ZnO	1:20	500	500	89	2.4